

FIG. 1

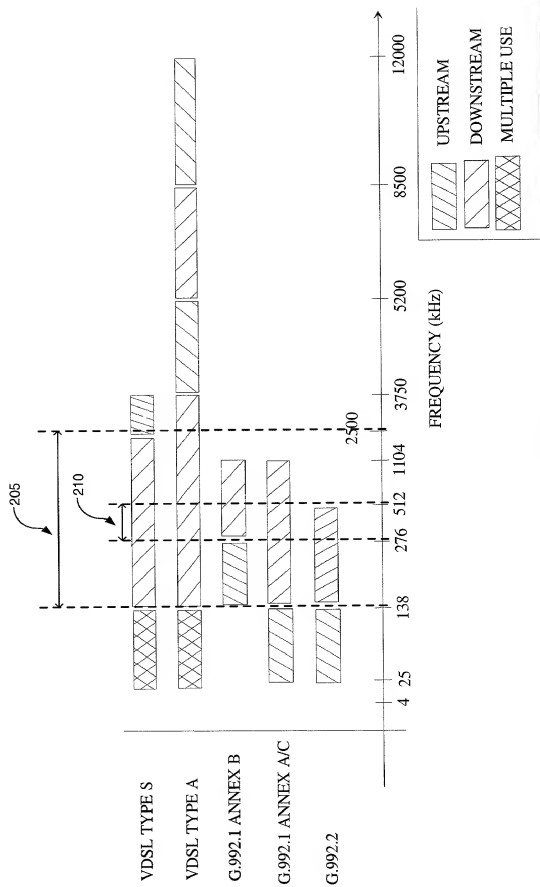
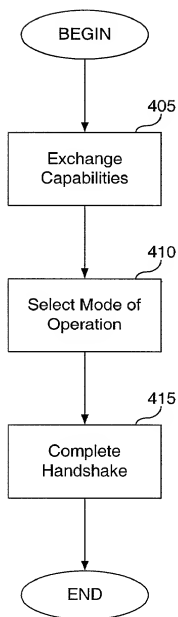


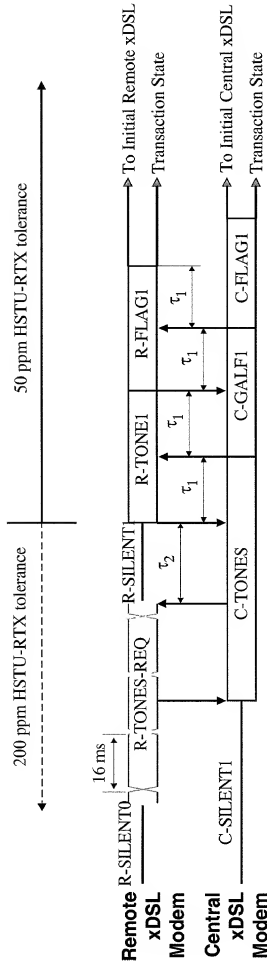
FIG. 2

Central xDSL Modem						Remote xDSL Modem			Operation	Case #
Capability			Select			Capability				
Use	Up	Down	Use	Up	Down	Use	Up	Down		
0	X	X	X	X	X	X	X	X	None	1
0	X	X	X	X	X	1	X	X	None	2
1	X	X	X	X	X	0	X	X	None	3
1	1	X	1	1	0	1	1	X	Up	4
1	X	1	1	0	1	1	X	1	Down	5

VDSL Optional Band Usage

**FIG. 3**

**FIG. 4**



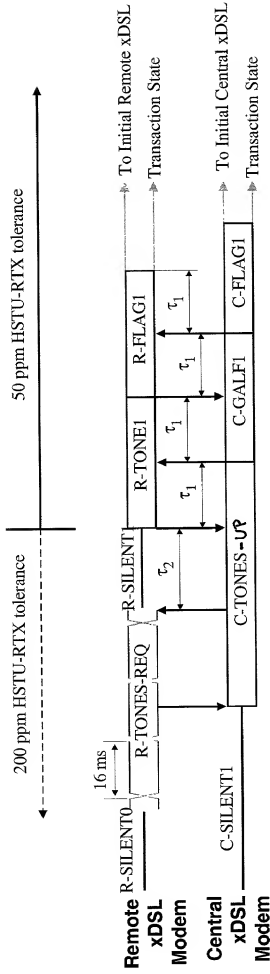
$\tau_1 < 500$  ms

$50$  ms  $< \tau_2 < 500$  ms

T1531780-99

Remote xDSL initiated duplex start-up procedure

**FIG. 5**



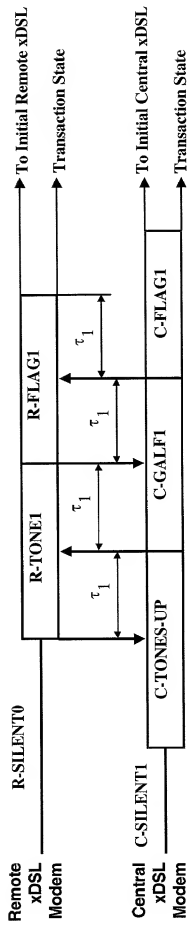
$\tau_1 < 500 \text{ ms}$

$50 \text{ ms} < \tau_2 < 500 \text{ ms}$

T1531780-98

Remote xDSL initiated duplex start-up procedure

**FIG. 6**



$$T_1 < 500 \text{ ms}$$

**FIG. 7**